

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A film recorder comprising:
a film recording device configured to expose sequential frames of film media;
~~at least one a single flat panel display device having a high resolution digital screen~~ driven directly from a computer and configured to display ~~at least one sequentially separate color component image images~~ associated with ~~an a single composite color image~~;
an alignment unit coupled to the film recording device and to the ~~flat panel~~ display device, wherein the alignment unit is operative to position an optical axis of the flat panel display device with respect to an optical axis of the film recording device such that the film recording device can expose ~~an individual selected frame of~~ the film media to the ~~plurality of separate color component images of the flat panel display~~ so that registration of each color component of each pixel ~~in the image~~ is positionally repeatable; and
~~a shutter mechanism in disposed between the film recording device and the flat panel display device~~ for controlling exposure of the film media to each ~~of the separate color component image images~~ in the ~~same~~ frame for a desired amount of time.
2. (Original) The film recorder of claim 1 further comprising an external illumination source configured to provide illumination to the one flat panel display;
wherein the external illumination source is one of the group: LED, strobe lamp, digital light projector.
3. (Currently amended) The film recorder of claim 2
wherein the external illumination source comprises one or more digital light projectors; and

wherein the one or more digital light projectors project hex chromatic color space images as backlight into the flat panel display, each said hex chromatic color space image corresponding to the color component image shown on the flat panel display.

4. (Currently amended) A The film recorder system of claim 1 further comprising:

a film recording device configured to expose sequential frames of film media; a first flat panel display device having a high resolution screen and driven directly from a computer and configured to display first monochromatic color component image of a specific frame of a composite color image;

a second flat panel display device having a high resolution screen and driven directly from a the computer and configured to display a second monochromatic color component image associated with the same specific frame;

a third flat panel display device driven having a high resolution screen and directly from a the computer and configured to display a third monochromatic color component image associated with the image same specific frame; and

an alignment unit coupled to the film recording device, to the first flat panel display device, to the second flat panel display device, and to the third flat panel display device, wherein the alignment unit is operative to position an optical axis of each one of the first, second and third flat panel display devices with respect to an optical axis of the film recording device such that the film recording device can expose an individual frame of the film media to the separate color component images of each one of the first, second and third flat panel display devices so that registration of each color component of each pixel in the composite image is positionally repeatable;

an optical combiner coupled to the one first flat panel display device, to the second flat panel display device, and to the third flat panel display device, the optical combiner configured to optically combine the first monochromatic color component image, the second monochromatic color component image, and the third monochromatic color component image to form a the composite image in the same specific frame at the film recording device; and

a shutter mechanism for controlling exposure of each of the sequential frames of the film media to each of the separate color component images in the specific frame for a desired amount of time.

5. (Currently amended) The film recorder of claim 4 wherein the film recording device is configured to exposes the frame of film media to the composite image formed simultaneously by the monochromatic color component images.

6. (Currently amended) The film recorder of claim 5 wherein each one of the first, second and third one flat panel display devices is only capable of displaying a monochromatic image.

7. (Currently amended) The film recorder of claim 4 claim 1 further comprising a color filter coupled disposed between the external illumination source and the one flat panel display, wherein the color filter is a color associated with a color component of the one of the separate color component image images.

8. (Currently amended) The film recorder of claim 1 wherein the one single flat panel display is also configured to display sequentially the a first color component image associated with the selected frame, a second color component image associated with the same selected frame and to display sequentially the a third color component image associated with the same frame and wherein the film recording device is operative to expose the same frame to each of the color component images.

9. (Currently amended) The film recorder of claim 8 wherein the film recording device is operative to expose the frame of film media to the one first color component image, then to the second color component image, and then to the third color component image.

10. (Currently amended) The film recorder of claim 9 further comprising: a plurality of color filters disposed between the one flat panel display and the frame of film media, wherein the plurality of color filters includes a first color filter, a second color filter, and a third color filter;

wherein the film recording device is operative to expose the frame of film media to the first color component image through the first color filter;

wherein the film recording device is operative to expose the frame of film media to the second color component image through the second color filter; and

wherein the film recording device is operative to expose the frame of film media to the second third color component image through the second third color filter.

11. (Canceled).

12. (Currently amended) A method for recording a sequence of composite images consisting of color component images onto corresponding sequential frames of film media comprising:

positioning at least one flat panel display device having a high resolution screen and driven directly from a computer with respect to an optical axis of a film recording unit;

displaying at least one color component image associated with a single frame an image on the one flat panel display device;

exposing a single frame of the film media to the one color component image on the one flat panel display; and

repeating the displaying and exposing steps for each frame of the film media corresponding to a frame source displayed on the screen until a sequence of the single frames is registered such that registration of each color component of each pixel is positionally repeatable.

13. (Original) The method of claim 12 further comprising providing illumination to the one flat panel display with an external illumination source selected from the group: LED, strobe lamp, digital light projector.

14. (Original) The method of claim of claim 13
wherein the external illumination comprises more than one digital light projector;
and
wherein the more than one digital light projector illuminate the one flat panel
display with images in the RGB and CMY color space.

15. (Currently amended) The method of claim 12 wherein said repeating step
further comprises:

displaying a second color component image associated with the single frame on
the one flat panel display device;

exposing the film media to the second color component image on the one flat
panel display device;

displaying a third color component image associated with the image on the one
flat panel display device; and

exposing the film media to the third color component image on the one flat panel
display device.

16. (Previously presented) The method of claim 15
wherein before exposing the film media to the one color component image,
further including the step of disposing a first color filter between the one flat panel display and
the film media; and

wherein before exposing the film media to the second color component image,
further including the step of disposing a second color filter between the one flat panel display
and the film media.

17. (Original) The method of claim 12, wherein the flat panel display is a
display from the group: LCD, OLED display, plasma display, EL display, silicon crystal display,
LCOS display.

18. (Previously presented) The method of claim 12 further comprising:
positioning a second flat panel display with respect to the optical axis of the film
recording unit;
displaying a second color component image associated with the image on the
second flat panel display;
exposing the film media to the second color component image on the second flat
panel display;
positioning a third flat panel display with respect to the optical axis of the film
recording unit;
displaying a third color component image associated with the image on the third
flat panel display; and
exposing the film media to the third color component image on the third flat panel
display.

19-22. (Canceled).

23. (Previously presented) The method of claim 12 further comprising:
making a release print in response to the film media; and
displaying the release print to an audience.

24-35. (Canceled).

36. (Previously presented) The method of claim 23 further including
the step of:
enhancing illumination while recording directly from the sequence of the
composite images to intermediate media, including an internegative or interpositive, to minimize
the number of required film transfer processes in making the release print.